

FIG. 1

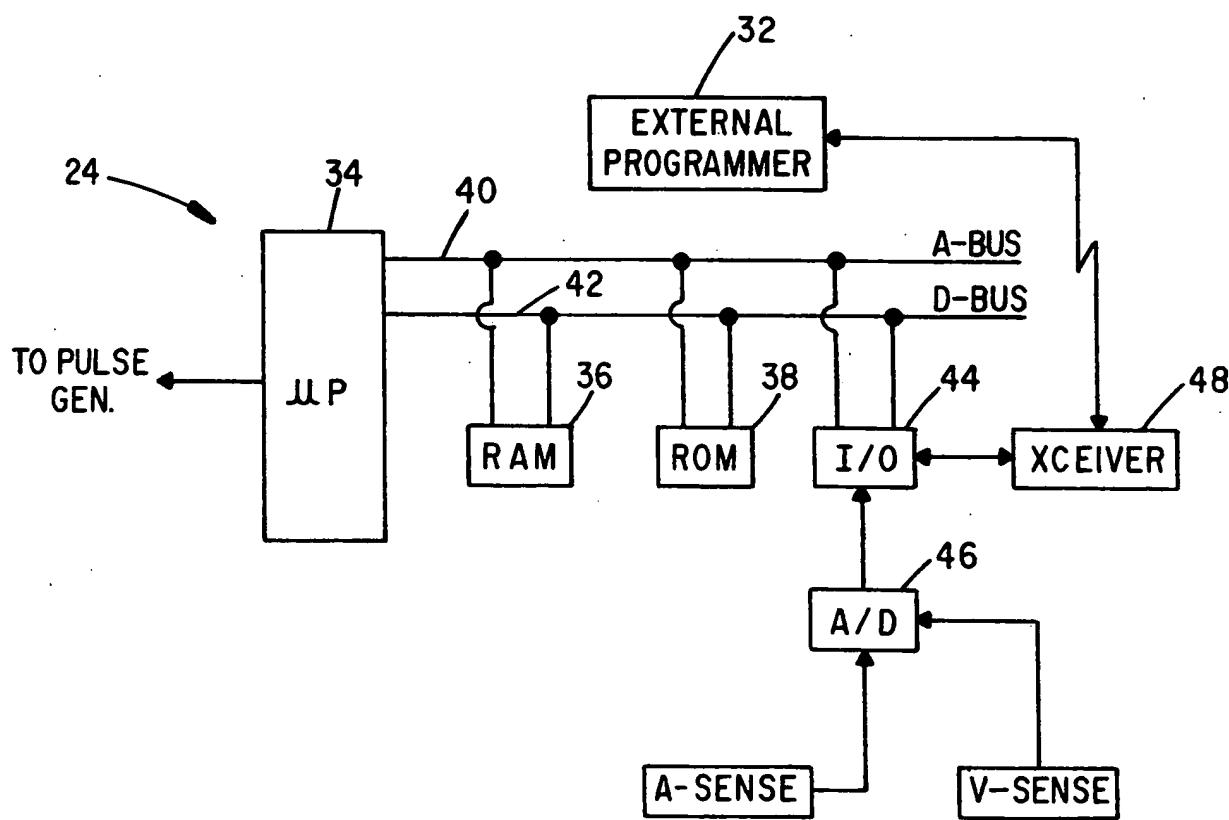


FIG. 2

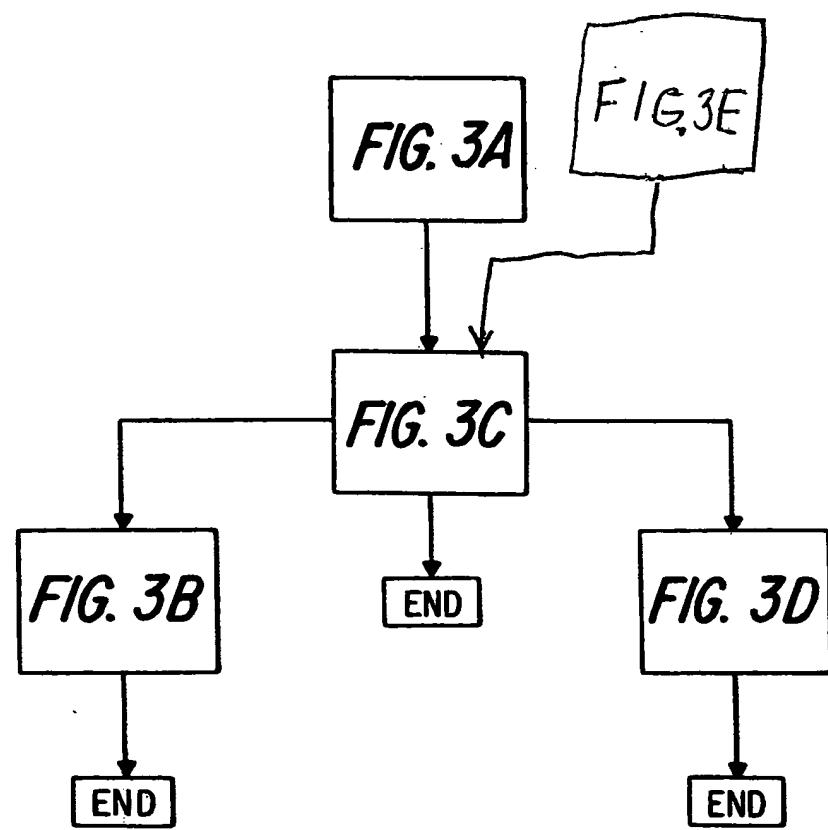


FIG. 3

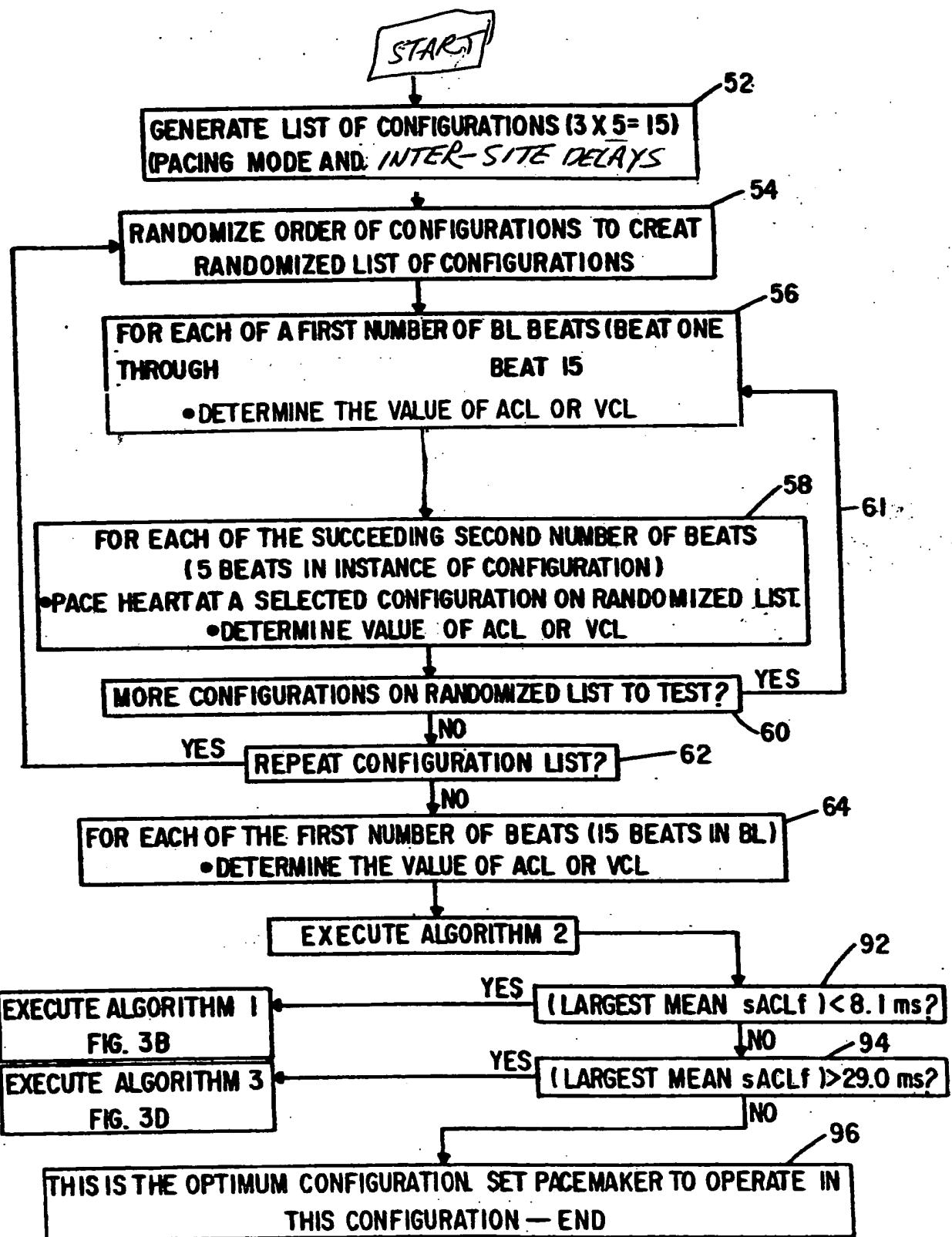


FIG. 3A

000000000000000000000000

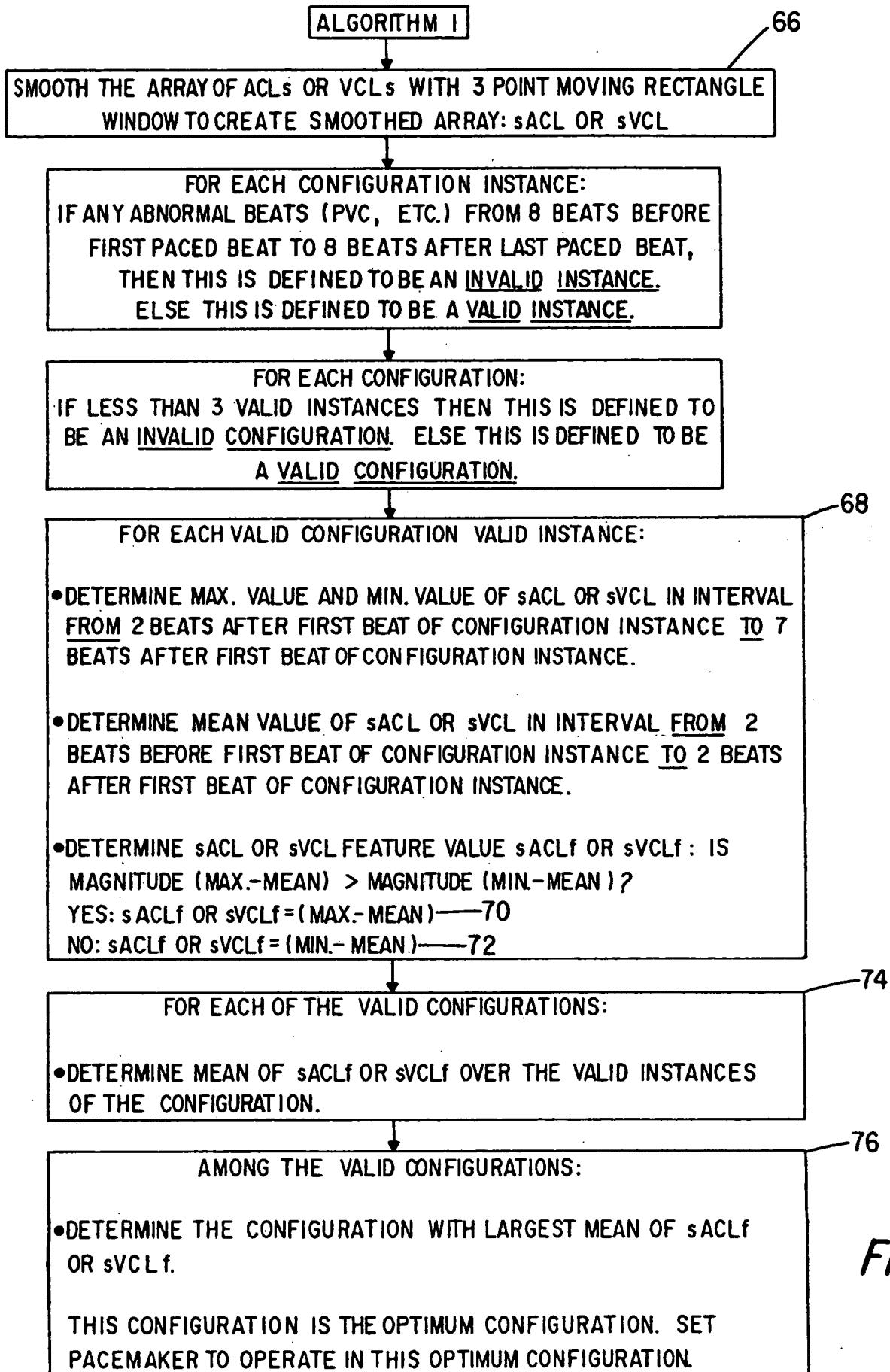
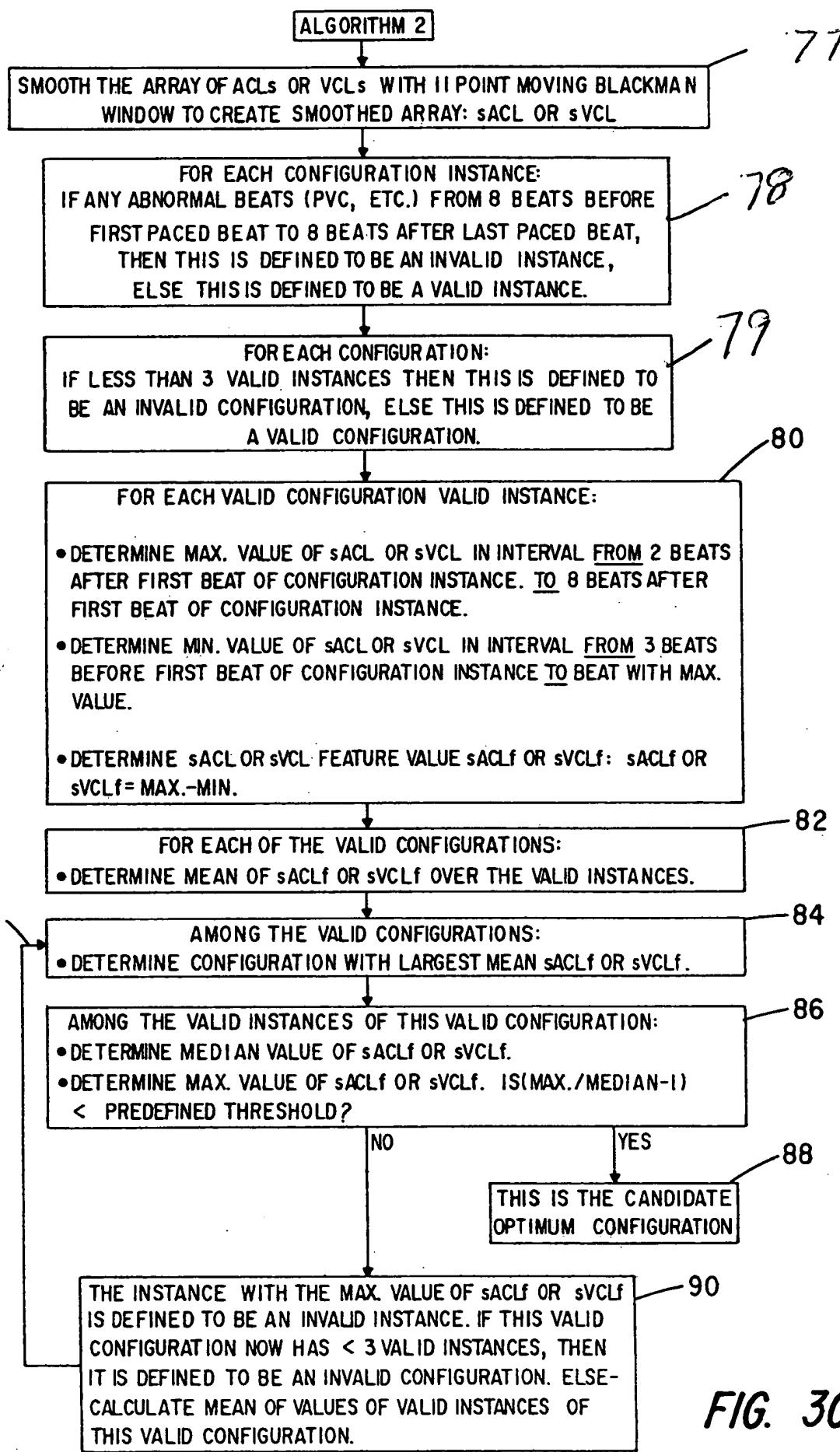


FIG. 3B



ALGORITHM 3

SMOOTH THE ARRAY OF ACLs OR VCLs WITH 11 POINT MOVING BLACKMAN WINDOW TO CREATE SMOOTHED ARRAY: sACL OR sVCL

FOR EACH CONFIGURATION INSTANCE:
 IF ANY ABNORMAL BEATS (PVC, ETC.) FROM 8 BEATS BEFORE FIRST PACED BEAT TO 8 BEATS AFTER LAST PACED BEAT,
 THEN THIS IS DEFINED TO BE AN INVALID INSTANCE,
 ELSE THIS IS DEFINED TO BE A VALID INSTANCE.

FOR EACH CONFIGURATION:
 IF LESS THAN 3 VALID INSTANCES THEN THIS IS DEFINED TO BE AN INVALID CONFIGURATION, ELSE THIS IS DEFINED TO BE A VALID CONFIGURATION.

FOR EACH VALID CONFIGURATION VALID INSTANCE:

- DETERMINE MAX. VALUE OF sACL OR sVCL IN INTERVAL FROM 1 BEAT AFTER FIRST BEAT OF CONFIGURATION INSTANCE. TO 8 BEATS AFTER FIRST BEAT OF CONFIGURATION INSTANCE.
- DETERMINE MIN. VALUE OF sACL OR sVCL IN INTERVAL FROM 3 BEATS BEFORE FIRST BEAT OF CONFIGURATION INSTANCE TO BEAT WITH MAX. VALUE.
- DETERMINE sACL OR sVCL FEATURE VALUE sACL_f OR sVCL_f: $sACL_f = MAX - MIN$.

FOR EACH OF THE VALID CONFIGURATIONS:

- DETERMINE MEAN OF sACL_f OR sVCL_f OVER THE VALID INSTANCES.

AMONG THE VALID CONFIGURATIONS:

- DETERMINE CONFIGURATION WITH LARGEST MEAN sACL_f OR sVCL_f.

AMONG THE VALID INSTANCES OF THIS VALID CONFIGURATION:

- DETERMINE MEDIAN VALUE OF sACL_f OR sVCL_f.
- DETERMINE MAX. VALUE OF sACL_f OR sVCL_f. IS(MAX./MEDIAN-1) < PREDEFINED THRESHOLD?

YES

THIS IS THE OPTIMUM CONFIGURATION. SET PACEMAKE TO OPERATE IN THIS CONFIGURATION.

97

98

100

FIG. 3D

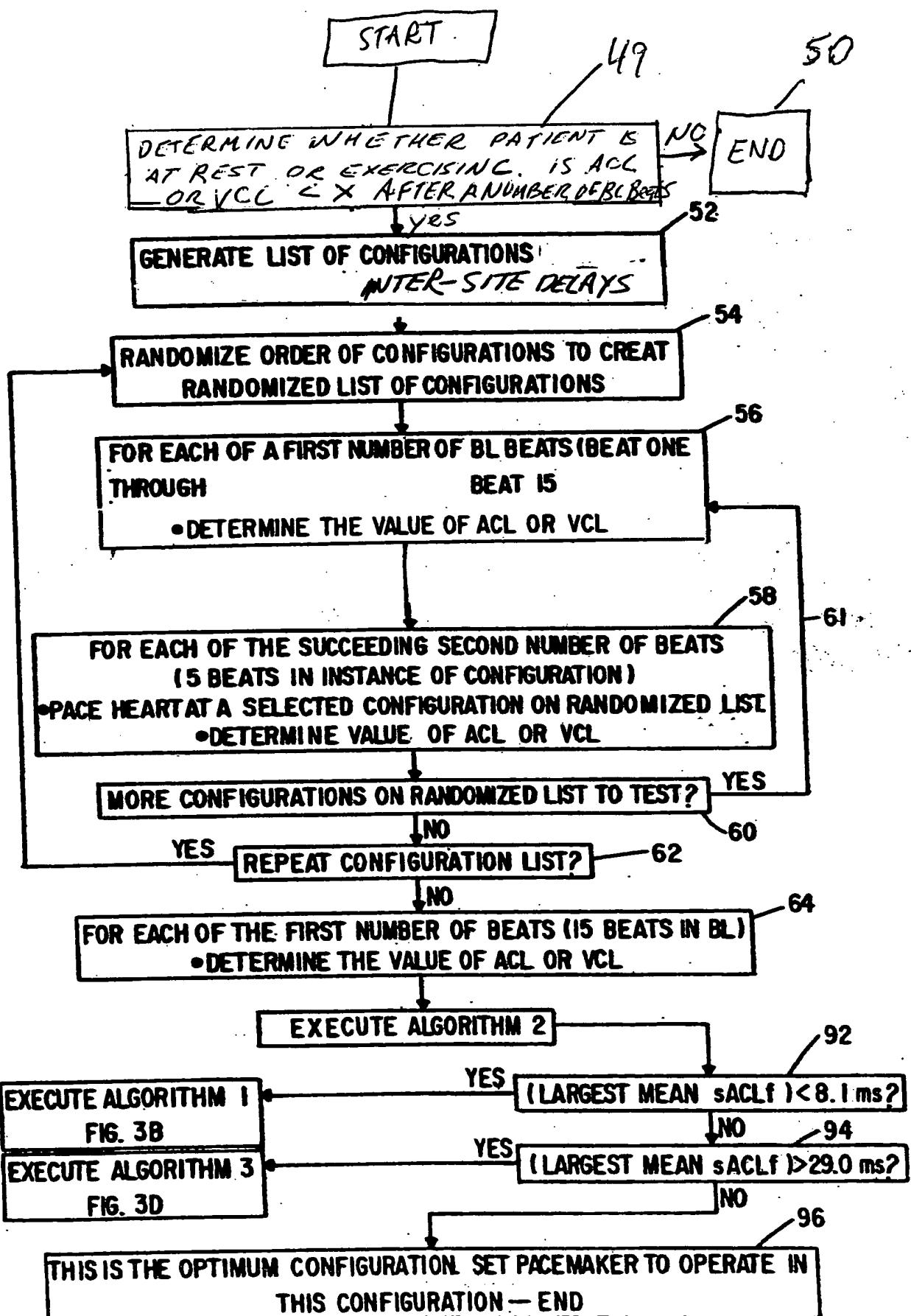


FIG. 3E

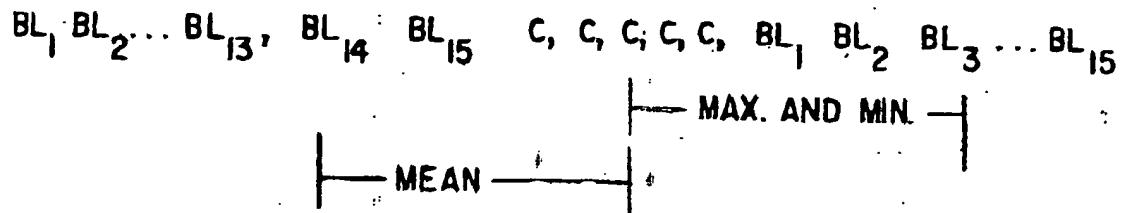


FIG. 4

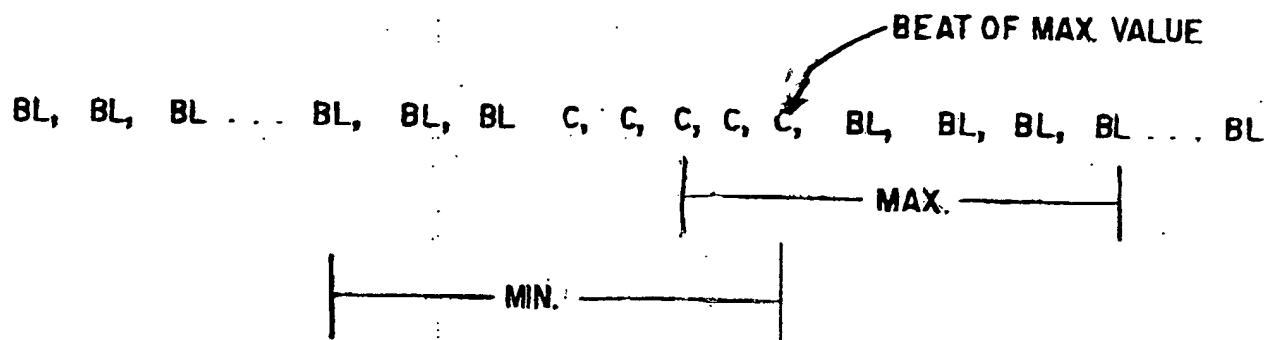


FIG. 5

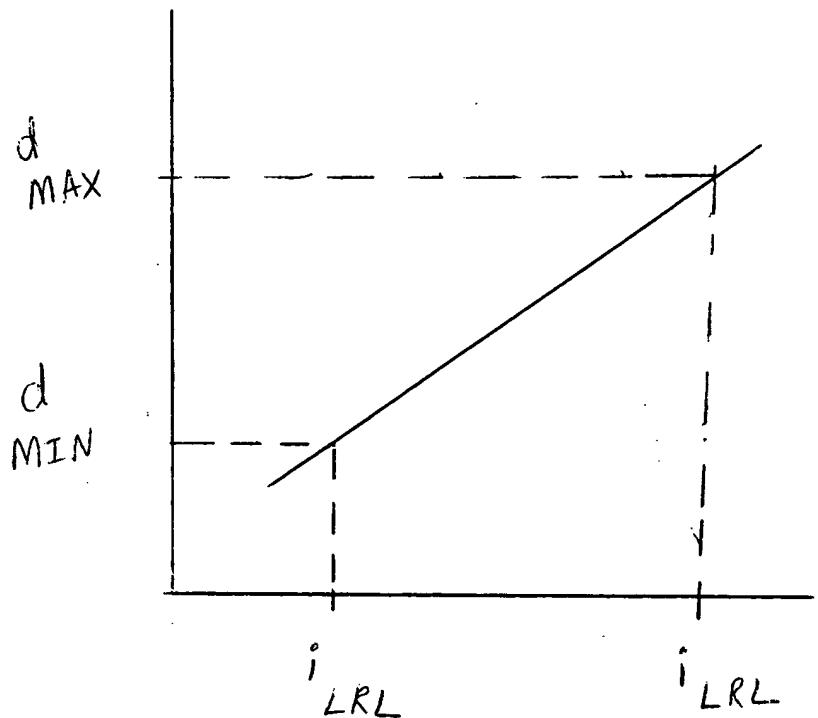


Fig 6